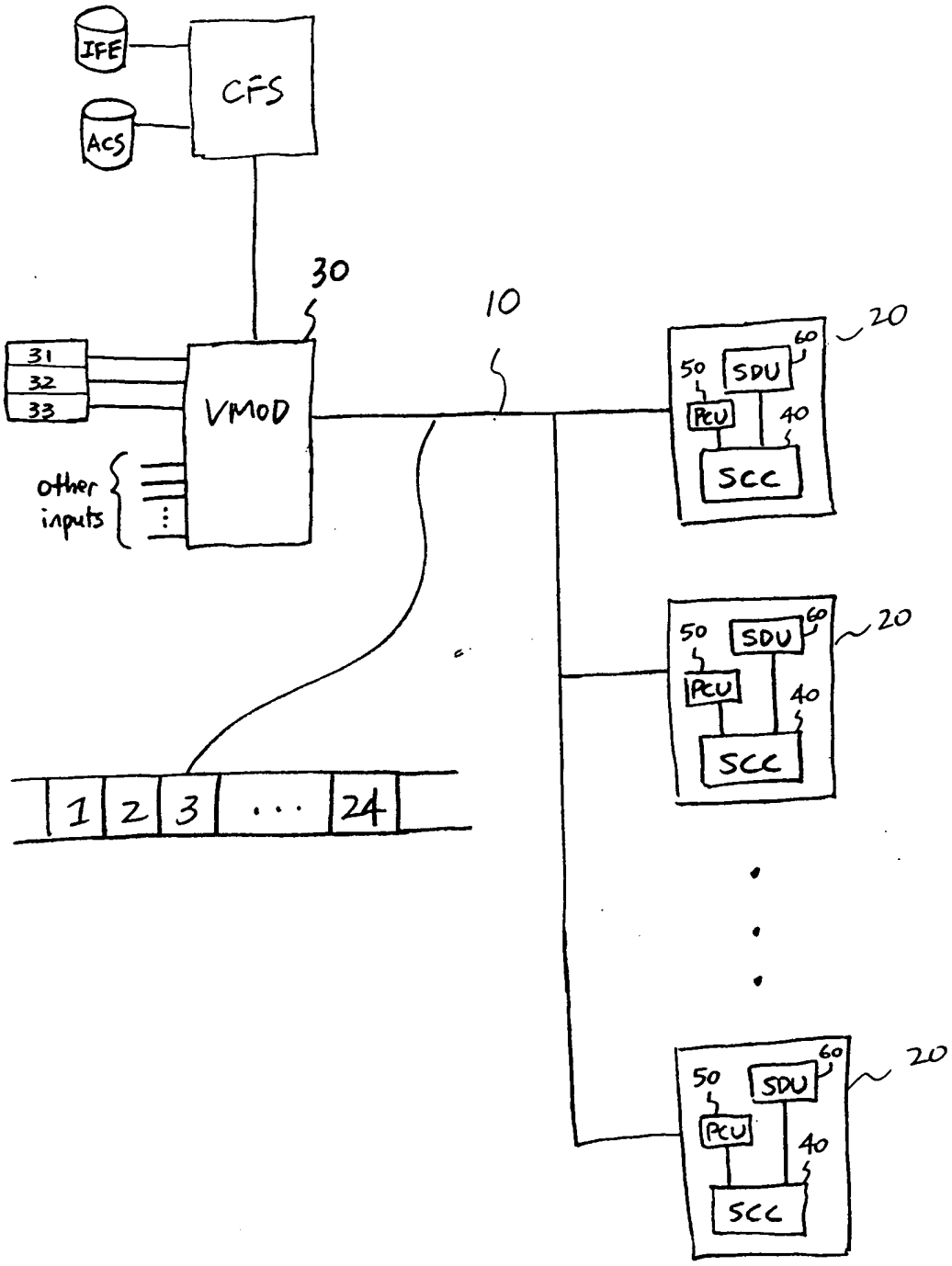
IFE
ACS
CFS
30
10
20
31
32
33
VMOD
other inputs
50
SDU
60
PCU
40
SCC
1
2
3
...
24

FIGURE 1

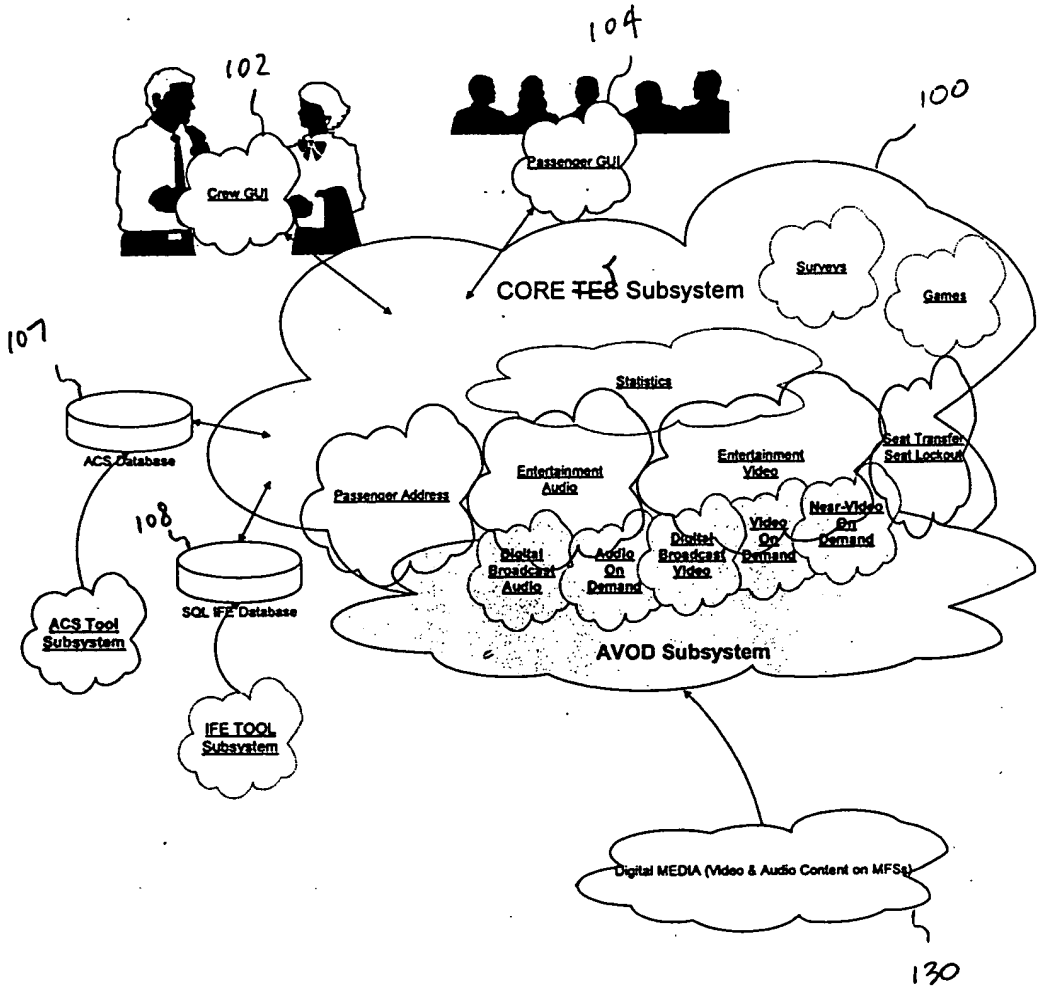
104
102
100
Passenger GUI
Crew GUI
CORE TES Subsystem
Surveys
Games
107
Statistics
ACS Database
Passenger Address
Entertainment Audio
Entertainment Video
Seat Transfer Seat Lockout
108
Digital Broadcast Audio
Audio On Demand
Digital Broadcast Video
Video On Demand
Near-Video On Demand
SQL IFE Database
ACS Tool Subsystem
AVOD Subsystem
IFE TOOL Subsystem
Digital MEDIA (Video & Audio Content on MFSs)
130

FIGURE 2

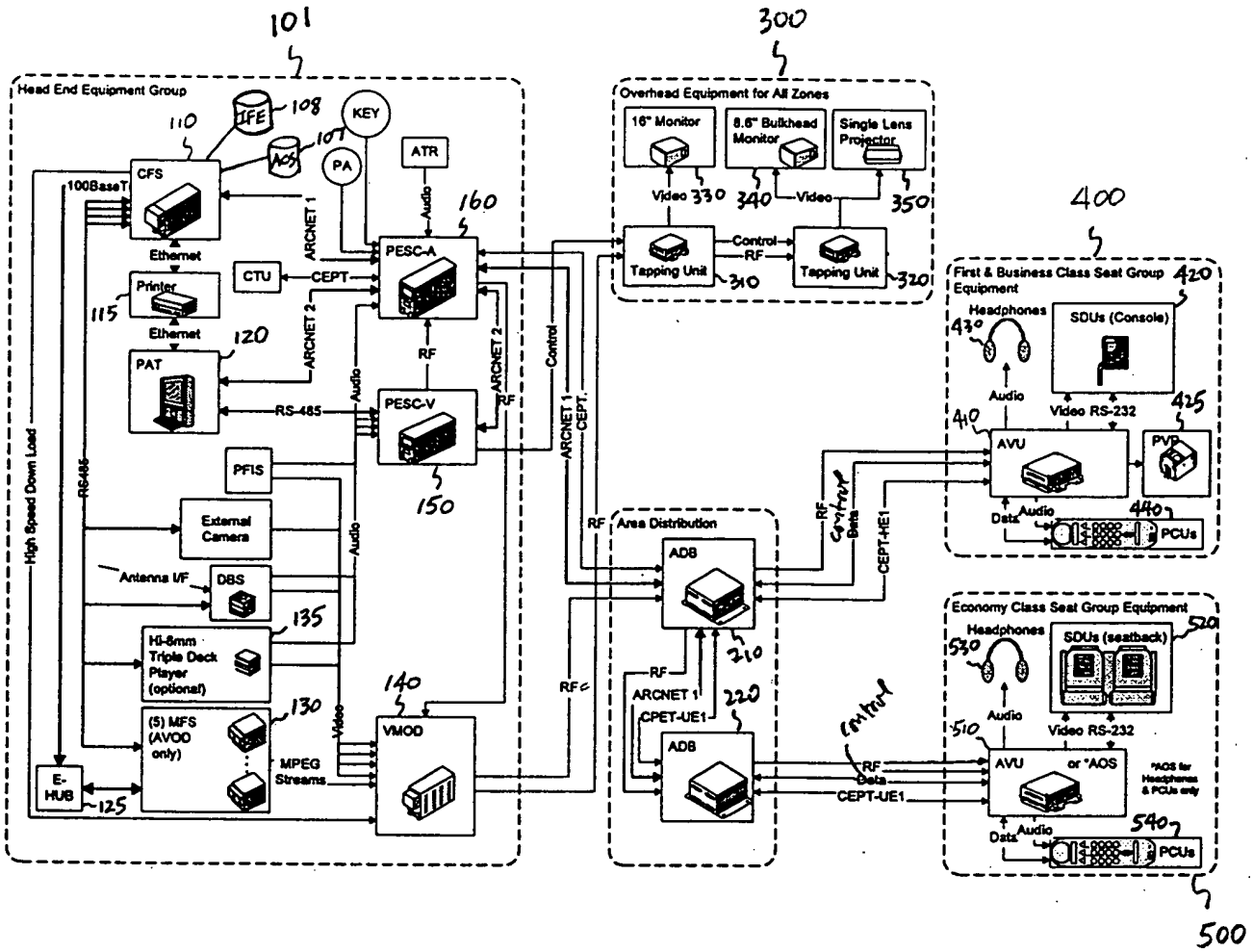
101
300
400
500
Head End Equipment Group
Overhead Equipment for All Zones
First & Business Class Seat Group Equipment
Economy Class Seat Group Equipment
Area Distribution
CFS
IFE
KEY
ATR
PA
AOS
100BaseT
Ethernet
Printer
CTU
CEPT
ARCNET 1
ARCNET 2
PESC-A
PESC-V
PAT
RS-485
Audio
RF
Control
PFIS
External Camera
Antenna I/F
DBS
Hi-8mm Triple Deck Player (optional)
(5) MFS (AVOO only)
MPEG Streams
Video
VMOD
E-HUB
High Speed Down Load
RS485
16" Monitor
8.6" Bulkhead Monitor
Single Lens Projector
Video 330
340
Video
350
Tapping Unit
310
320
Headphones
SDUs (Console)
Video RS-232
AVU
PVD
Data
PCUs
SDUs (seatback)
or *AOS
*AOS for Headphones & PCUs only
ADB
CPET-UE1
CEPT-HE1
Control
110
108
107
160
115
120
150
135
140
130
125
410
420
430
425
440
210
220
510
520
530
540

FIGURE 3

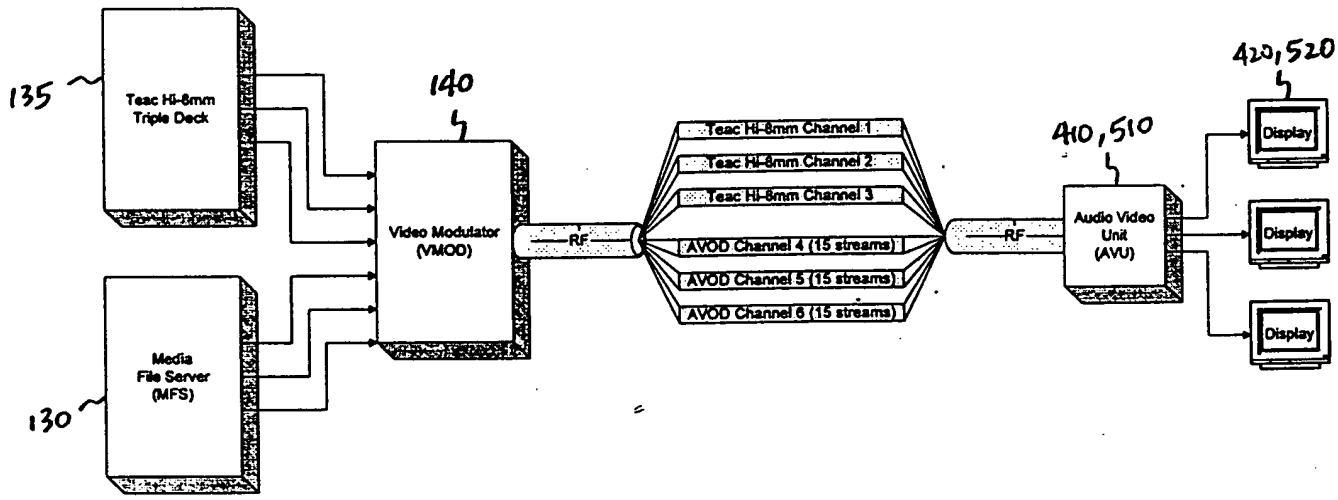
135
Teac Hi-8mm Triple Deck
130
Media File Server (MFS)
140
Video Modulator (VMOD)
RF
Teac Hi-8mm Channel 1
Teac Hi-8mm Channel 2
Teac Hi-8mm Channel 3
AVOD Channel 4 (15 streams)
AVOD Channel 5 (15 streams)
AVOD Channel 6 (15 streams)
RF
410, 510
Audio Video Unit (AVU)
420, 520
Display
Display
Display

FIGURE 4

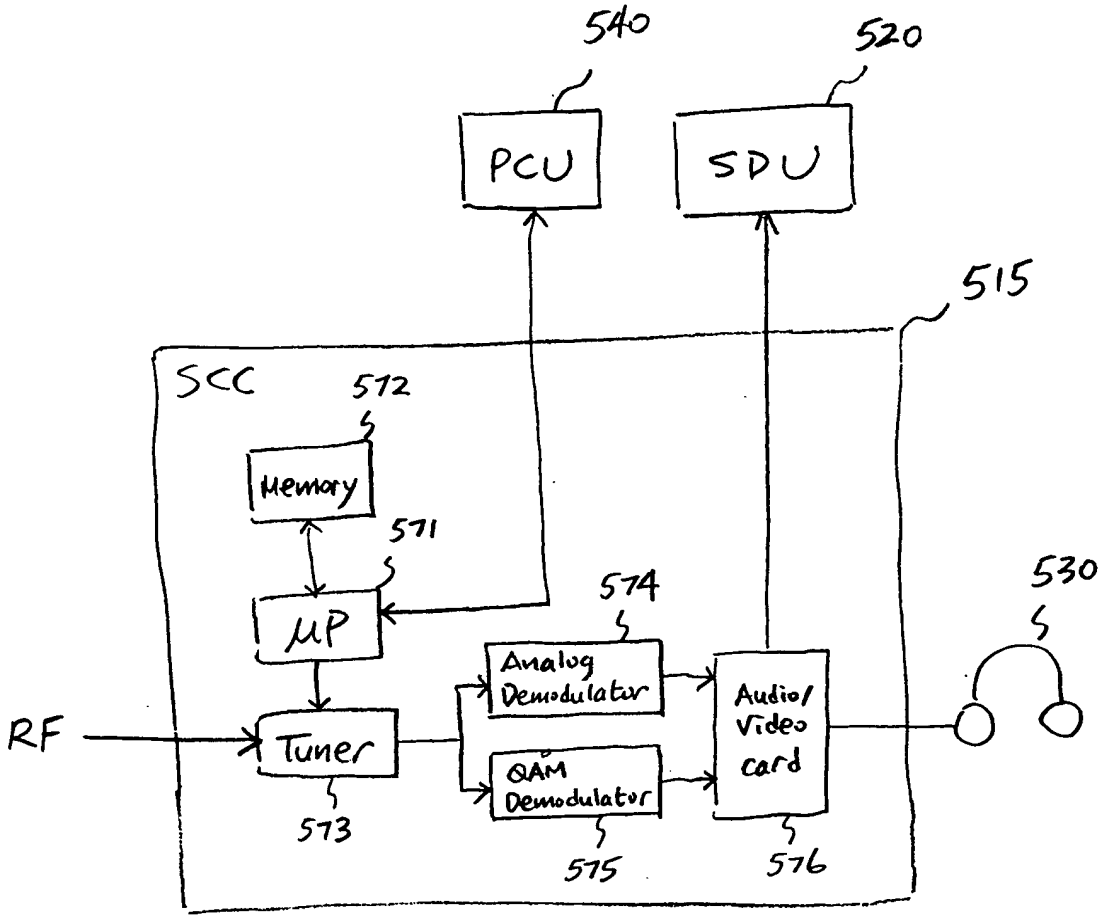
540
520
PCU
SDU
515
SCC
512
Memory
571
μP
574
530
Analog Demodulator
Audio/ Video card
RF
Tuner
QAM Demodulator
573
575
576

FIGURE 5

UPCU Channel	*PCU Channel*	*RF Channel*	*Stream*	*Content*	*Source*	*Lang1 Slice*	*Lang2 Slice*	*Usage*
MAP	MP or 01	1	N/A	Moving Map	Airshow	1	2	Continuous
VIEW	VW or 02	2	N/A	Outside View	Camera	N/A	N/A	Continuous
[none]	[none]	4	N/A	High Speed Download	CFS			
SA	SA or 03	One from 3, 5 - 10	N/A	Safety Video	1 VR(e.g. SVHS or Teac)	3	4	Video Announcement
M03	04	One from 3, 5 - 10	N/A	Monthly Magazine	1 VR(e.g. SVHS or Teac)	5	6	Continuous
M04 - M08	05 - 09	One from 3, 5 - 10	N/A	Feature Film #1 - 5 Broadcasts	5 VRs (e.g. 2 Teac Triples) an/or up to 3 re-routed digital sources to the VCC SCCs	7,9,11, ...17	8,10,12 ,...18	Continuous
M09 - M23	10 - 24	11	1 - 15	Feature Films #7 - 21 Broadcast	MFS1 (30 hr)	N/A	N/A	Continuous
M24	25	12	1-12	Feature Film ~~#15~~ NVOD #22	MFS1 (31-32 hr)	N/A	N/A	At 10-minute intervals, a 120-minute movie gets full looping coverage w/ 12 streams
M25	26	13	1-12	Feature Film ~~#16~~ NVOD #23	MFS1 (33-34 hr)	N/A	N/A	(ditto)
VOD	DV or 27	14 - 16	1 - 15 per channel	45 VOD simulcasts of Films #24-43	MFS2 (40 hr)	N/A	N/A	The content is user-selectable from among 20 2-hr. movies.
VOD	DV or 27	17 - 19	1 - 15 per channel	45 VOD simulcasts of Films #44-63	MFS3 (40 hr)	N/A	N/A	The content is user-selectable from among 20 2-hr. movies.
VOD	DV or 27	20 - 22	1 - 15 per channel	45 VOD simulcasts of Films #64-83	MFS4 (40 hr)	N/A	N/A	The content is user-selectable from among 20 2-hr. movies.
AOD	DA or 28	23 - 24	1 - 15 per channel	45 AOD simulcasts	MFS5 (500 hr)	N/A	N/A	The content is user-selectable from among 500 1-hr. programs.
A01 - A70	29 - 98	N/A	N/A	Audio	PRAM, etc.	19,21,23,...87	20,22,24,...88	Continuous

FIGURE 6

09552950 "09552950

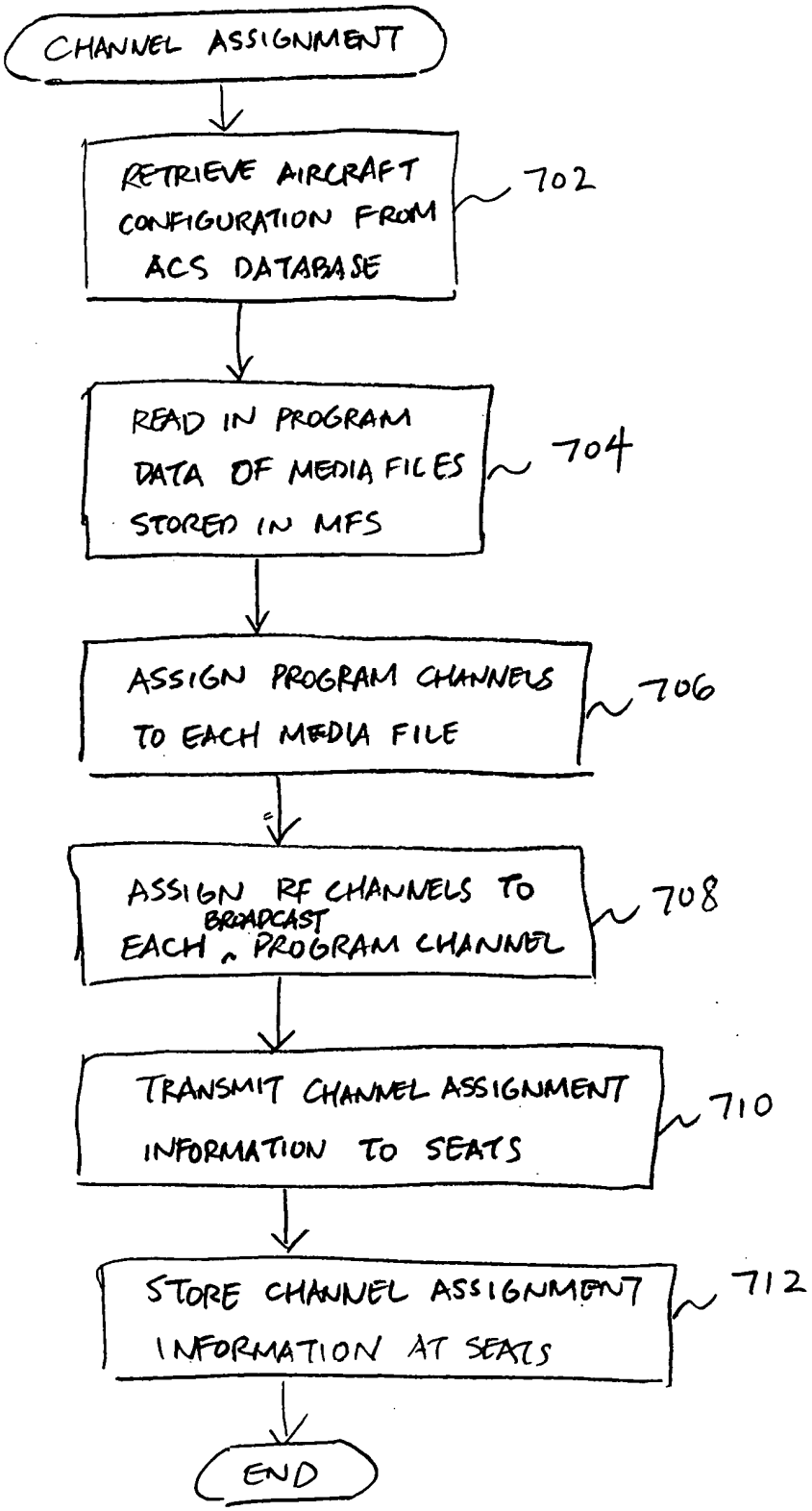

FIGURE 7

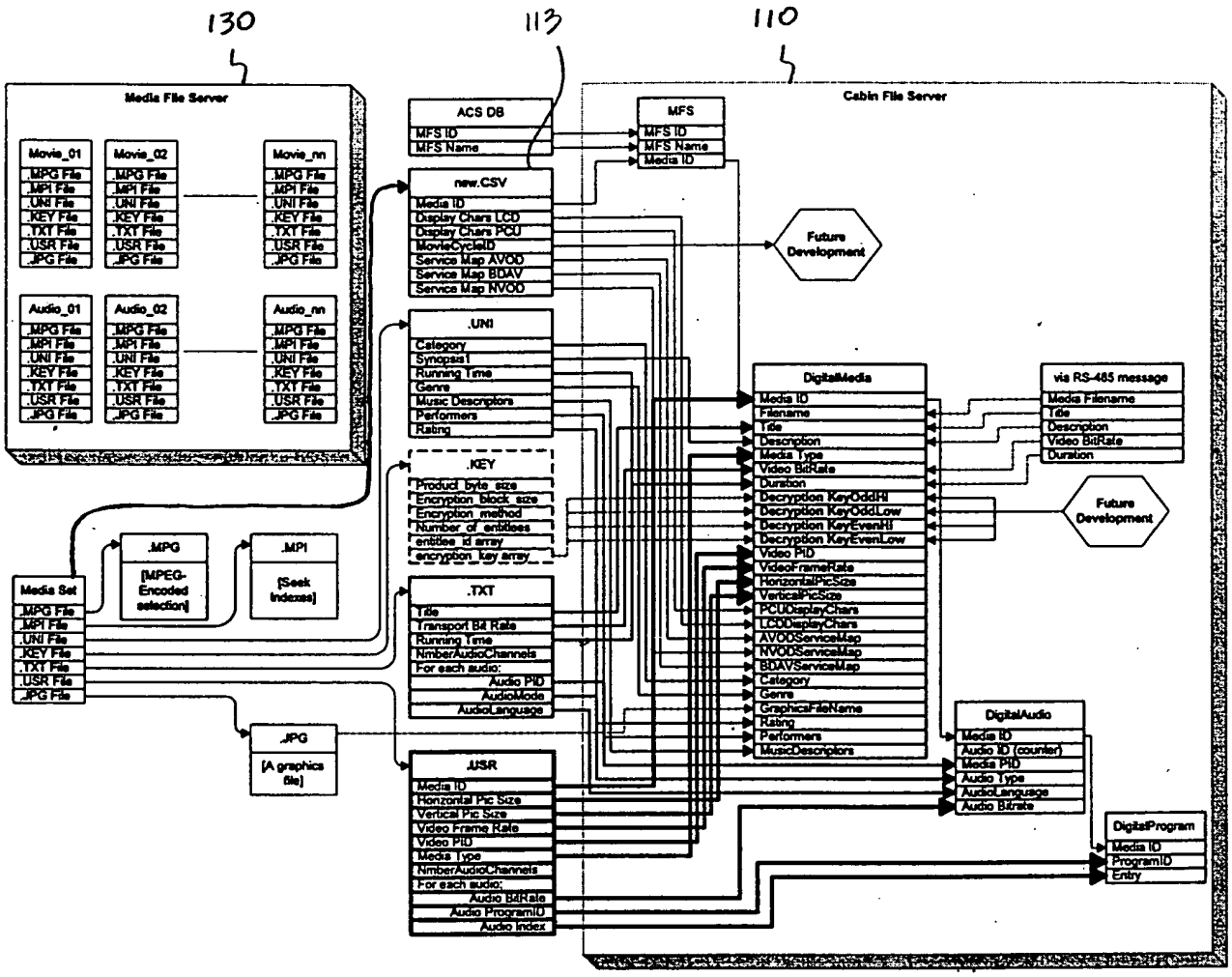
130
113
110
Media File Server
Movie_01
Movie_02
Movie_nn
.MPG File
.MPI File
.UNI File
.KEY File
.TXT File
.USR File
.JPG File
Audio_01
Audio_02
Audio_nn
Media Set
.MPG
[MPEG-Encoded selection]
.MPI
[Seek Indexes]
.JPG
[A graphics file]
ACS DB
MFS ID
MFS Name
new.CSV
Media ID
Display Chars LCD
Display Chars PCU
MovieCycleID
Service Map AVOD
Service Map BDAV
Service Map NVOD
.UNI
Category
Synopsis1
Running Time
Genre
Music Descriptors
Performers
Rating
.KEY
Product_byte_size
Encryption_block_size
Encryption_method
Number_of_entitlees
entitlee_id array
encryption_key array
.TXT
Title
Transport Bit Rate
Running Time
NmberAudioChannels
For each audio:
Audio PID
AudioMode
AudioLanguage
.USR
Media ID
Horizontal Pic Size
Vertical Pic Size
Video Frame Rate
Video PID
Media Type
NmberAudioChannels
For each audio:
Audio BitRate
Audio ProgramID
Audio Index
Cabin File Server
MFS
MFS ID
MFS Name
Media ID
Future Development
DigitalMedia
Media ID
Filename
Title
Description
Media Type
Video BitRate
Duration
Decryption KeyOddHI
Decryption KeyOddLow
Decryption KeyEvenHI
Decryption KeyEvenLow
Video PID
VideoFrameRate
HorizontalPicSize
VerticalPicSize
PCUDisplayChars
LCDDisplayChars
AVODServiceMap
NVODServiceMap
BDAVServiceMap
Category
Genre
GraphicsFileName
Rating
Performers
MusicDescriptors
via RS-485 message
Media Filename
Title
Description
Video BitRate
Duration
Future Development
DigitalAudio
Media ID
Audio ID (counter)
Media PID
Audio Type
AudioLanguage
Audio Bitrate
DigitalProgram
Media ID
ProgramID
Entry

FIGURE 8

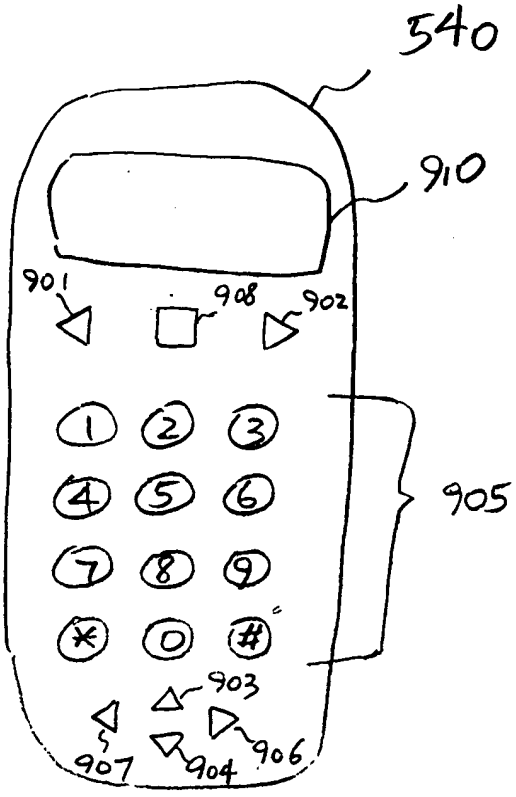

FIGURE 9